Atty. Dkt. No.: 029815-0103

WHAT IS CLAIMED IS:

- 1. A spinal implant system, comprising:
 2 a vertebral prosthesis having a support and an endplate, and
 3 an artificial spinal disc coupled to the endplate.
- 1 2. The spinal implant system of claim 1, wherein the endplate has a structure adapted to interlock with the artificial spinal disc.
- The spinal implant system of claim 2, wherein the structure prevents rotation of the artificial spinal disc relative to the endplate.
- 1 4. The spinal implant system of claim 2, wherein the artificial spinal disc 2 comprises a core disposed between two plates and wherein one of the two plates is 3 removed prior to being coupled with the structure.
- 5. The spinal implant system of claim 2, wherein the structure is at least one of a flange and a recess.
- 1 6. The spinal implant system of claim 1, wherein the endplate and the support are adapted to be threaded, snapped, or twist-locked onto one another.
- 7. The spinal implant system of claim 1, further comprising a pedicle screw retainer coupled to at least one of the endplate and the support.
- 1 8. The spinal implant system of claim 1, wherein the support is adjustable to change the height of the support.
- 9. The spinal implant system of claim 8, further comprising a second endplate coupled to the support, the second endplate adapted to be coupled to a second artificial spinal disc.
- 1 10. The spinal implant system of claim 8, further comprising a second endplate coupled to the support, the second endplate having teeth adapted to be coupled to a bone.

- 1 11. A vertebral prosthesis adapted to be implanted adjacent a spinal disc prosthesis, comprising:
- з a shaft;
- an endplate coupled to one end of the shaft, the endplate adapted to be implanted adjacent a disc prosthesis, thereby obviating the need to fuse the endplate to an adjacent vertebra.
- 1 12. The vertebral prosthesis of claim 11, further comprising a second 2 endplate coupled to an other end of the shaft, wherein the second endplate comprises 3 one or more teeth configured to directly interface with an other adjacent vertebra, 4 thereby allowing fusion of the vertebral prosthesis with the other adjacent vertebra 5 while preserving motion between the vertebral prosthesis and the adjacent vertebra.
- 1 13. The vertebral prosthesis of claim 11, further comprising a second endplate, wherein the second endplate is adapted to be implanted adjacent a second disc prosthesis.
 - 14. The vertebral prosthesis of claim 11, wherein the disc prosthesis comprises a core held between two plates and wherein one of the two plates is removed prior to being implanted adjacent the endplate.
- 1 15. The vertebral prosthesis of claim 11, wherein the endplate and the shaft 2 are adapted to be screwed, threaded, snapped, or twist-locked onto one another.
- 1 16. The vertebral prosthesis of claim 11, further comprising a pedicle screw retainer coupled to at least one of the shaft and the endplate.
- 1 17. The vertebral prosthesis of claim 11, wherein the height of the shaft is adjustable.
- 1 18. The vertebral prosthesis of claim 11, wherein the shaft is at least partially constructed of a mesh.

1

2

3

Atty. Dkt. No.: 029815-0103

- 1 19. The vertebral prosthesis of claim 18, wherein the disc prosthesis 2 comprises a core situated between two plates and wherein one of the two plates is 3 removed prior to being inserted into the recess.
- 1 20. The vertebral prosthesis of claim 19, further comprising a pedicle 2 screw retainer coupled to at least one of the shaft and the endplate.
- 1 21. A vertebral prosthesis, comprising:
- 2 a shaft;
- a first endplate coupled to a first end of the shaft, the first endplate
- 4 having a recess adapted to receive an artificial spinal disc; and
- a second endplate coupled to a second end of the shaft.
- 1 22. The vertebral prosthesis of claim 21, wherein the second endplate 2 comprises one or more teeth configured to interface with an adjacent vertebra.
- 1 23. The vertebral prosthesis of claim 21, wherein the second endplate has a 2 second recess adapted to receive a second artificial spinal disc.
- 1 24. The vertebral prosthesis of claim 21, wherein the artificial spinal disc 2 comprises a core situated between two plates and wherein one of the two plates is 3 removed prior to the disc being inserted into the recess.
- 1 25. The vertebral prosthesis of claim 21, wherein the first endplate and the 2 shaft are adapted to be screwed, threaded, snapped, or twist-locked onto one another.
- 1 26. The vertebral prosthesis of claim 21, further comprising a pedicle 2 screw retainer coupled to at least one of the shaft, the first endplate, and the second 3 endplate.
- 1 27. The vertebral prosthesis of claim 21, wherein the shaft is adjustable to change the height of the shaft.

- 1 28. The vertebral prosthesis of claim 21, wherein the shaft is at least 2 partially constructed of a mesh.
- 1 29. The vertebral prosthesis of claim 21, wherein the recess prevents 2 rotation of the artificial spinal disc relative to the first endplate.
- 1 30. The vertebral prosthesis of claim 29, wherein the second endplate has a second recess adapted to receive a second artificial spinal disc.
- 1 31. The vertebral prosthesis of claim 30, further comprising a pedicle 2 screw retainer coupled to at least one of the shaft and the endplate.
- 1 32. A vertebral prosthesis compatible with multiple disc prostheses, 2 comprising:
- з a shaft;
- an endplate tray coupled to the shaft, the endplate tray configured to be implanted adjacent a first artificial disc having a first shape and a second artificial disc having a second shape, wherein the first shape is different from the second shape.
- 1 33. The vertebral prosthesis compatible with multiple disc prostheses of 2 claim 32, wherein the first artificial spinal disc comprises a core between two plates 3 and wherein one of the two plates is removed prior to being implanted adjacent the 4 endplate tray.
- 1 34. The vertebral prosthesis compatible with multiple disc prostheses of 2 claim 32, wherein the endplate tray and the shaft are adapted to be screwed, threaded, 3 snapped, or twist-locked onto one another.
- 1 35. The vertebral prosthesis compatible with multiple disc prostheses of 2 claim 32, further comprising a pedicle screw retainer coupled to at least one of the 3 shaft and the endplate tray.
- 1 36. The vertebral prosthesis compatible with multiple disc prostheses of claim 32, wherein the shaft is adjustable to change the height of the shaft.

- 1 37. The vertebral prosthesis compatible with multiple disc prostheses of claim 32, wherein the shaft is at least partially constructed of a mesh.
 - 38. The vertebral prosthesis compatible with multiple disc prostheses of claim 32, wherein the first artificial disc is manufactured by a first manufacturer and the second artificial disc is manufactured by a second manufacturer, wherein the first manufacturer is different from the second manufacturer.
- 1 39. A vertebral prosthesis system having interchangeable endplates, comprising:
- a shaft;

1

2

3

4

4

5

6

7

8

9

1

2

3

4

- a first endplate having a first side adapted to be coupled to a first end of the shaft and a second side dimensioned to be coupled to a first artificial disc; and a second endplate having a first side adapted to be coupled to the first end of the shaft in place of the first endplate and a second side dimensioned to be coupled to a second artificial disc, the second artificial disc having a different configuration from the first artificial disc.
- 40. The vertebral prosthesis system having interchangeable endplates of claim 39, wherein the first artificial disc comprises a core between two plates and wherein one of the two plates is removed prior to being implanted adjacent the first endplate.
- 1 41. The vertebral prosthesis system having interchangeable endplates of 2 claim 39, wherein the first endplate and the shaft are adapted to be screwed onto one 3 another.
- 1 42. The vertebral prosthesis system having interchangeable endplates of 2 claim 39, further comprising a pedicle screw retainer coupled at least one of the shaft, 3 the first endplate, and the second endplate.
- 1 43. The vertebral prosthesis system having interchangeable endplates of claim 39, wherein the shaft is at least partially constructed of a mesh.

| 1 | 44. | A method of replacing a vertebral body and at least one adjacent spinal |
|----|---|--|
| 2 | disc, comprising: | |
| 3 | | opening an aperture in a patient to permit access to a vertebral body to |
| 4 | be replaced; | |
| 5 | | removing at least a portion of the vertebral body; |
| 6 | • | removing a spinal disc located adjacent the vertebral body; |
| 7 | | selecting a vertebral prosthesis to be implanted into the space created |
| 8 | by the remova | al of the vertebral body and the spinal disc; |
| 9 | | selecting an artificial disc to be implanted between the vertebral |
| 10 | prosthesis and an adjacent vertebra; | |
| 11 | | coupling the vertebral prosthesis to the artificial disc; |
| 12 | | coupling the artificial disc to the adjacent vertebra; and |
| 13 | | closing the aperture. |
| 1 | 45. | The method of replacing a vertebral body and at least one adjacent |
| 2 | spinal disc of | claim 44, further comprising coupling a pedicle screw support to the |
| 3 | vertebral prosthesis and attaching at least one pedicle screw between the pedicle | |
| 4 | screw support | and a pedicle. |
| 1 | 46. | The method of replacing a vertebral body and at least one adjacent |
| 2 | spinal disc of claim 44, further comprising adjusting the height of the vertebral | |
| 3 | prosthesis. | |
| 1 | 47. | The method of replacing a vertebral body and at least one adjacent |
| 2 | spinal disc of | claim 44, further comprising removing an endplate from the artificial |
| 3 | disc before co | upling the artificial disc to the vertebral prosthesis. |
| 1 | 48. | The method of replacing a vertebral body and at least one adjacent |

spinal disc of claim 44, further comprising packing bone graft or other bone growth

promoting materials around the vertebral body.

2

Atty. Dkt. No.: 029815-0103

1 49. The method of replacing a vertebral body and at least one adjacent

- 2 spinal disc of claim 44, further comprising selecting an appropriate vertebral
- 3 prosthesis endplate and attaching the endplate to the vertebral prosthesis.